BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of the Work : Providing Borewell and Pipline Work in Bhadrappa Layout and Surrounding in Ward No. 08, Kodigehalli

Estimated Cost : 25.00 Lakhs

Code No. : 008–19–000003

BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work :- Providing Borewell and pipe line work in Bhadrappa layout and surrounding in ward no.08 Kodigehalli.

						Est Cost: Rs. 25.00Lakhs		
Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting gvenner or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the licating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc.,(Page.no.48, item no.9.4) PRED SR 2012-13.							
		2				2.00	1938.46	3877.00
							No	
2	Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG na above 900 CFM and abaove in all strats including over burden upto 20M. fixing of casing pipes collars and cap with necessary, cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield testing at the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.,)(P-46,I.NO.9.1 from 9.1.1 TO 9.1.6)PRED SR 2012-13							
a	0.00 to 50.00 mtrs	2	50.00			100.00	315.18	31518.00
b	50.00 to 100.00 mtr	2	50.00			100.00	412.00	41200.00
c	100.00 to 150.00 mtr	2	50.00			100.00	458.35	45835.00
d	150.00 to 200.00 mtr	2	50.00			100.00	484.10	48410.00
e	200.00 to 250.00 mtr	2	50.00			100.00	560.32	56032.00
f	250.00 to 300.00 mtr	2	30.00			60.00	600.49	36029.00
							Rmtr	
3	Additional Rate item no.9.1 is allowed for drilling in over burden and fixing casing pipes beyond 20 M (for fixinig casing pipes only (a) Above 20M upto 30 M -15% (b) Above 30M -30% Ref PRED SR 2011-12 (Page no.48,)Note-1							
a	20.00 to 30.00 mtr	2	10.00			20.00	47.28	946.00
b	above 30.00 mtr	2	31.00			62.00	94.55	5862.00
							Rmtr	
4	Supplying of ISI Mark 175 mm nominal bore, Plain end steel casing pipe - grade of steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments. electric resistance welded steel tube material and confirming to IS 1387/1993 and cmanufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. Both ends threaded confirming to IS 554/1985. one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking. weighing 25.10kg/mtr. (Inclusive of all taxes and durties) Prices include collar-medium duty. (Page no.iii, Item No.84)PRED SR 2011-12							
	Casing pipe	2	46.00			92.00		

Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
	For Exsting borewells	2	30.00			60.00		
						152.00	1325.00	201400.00
							Mtr	
5	KSRB13.3.6: Providing and fixing in trenches galvanised / mild steel tubes (medium grade) nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (Page no.92, item no.13.15)50mm dia PWD SR 2018-19							
	For New borewells	2	270.00			540.00		
	For Exsting borewells	4	30.00			120.00		
						660.00	411.28	271445.00
							Rmtr	
6	Providing 175mm dia MS cap (PRED SR 12-13, page iii, item no.85)							
	For New borewells	2				2.00		
	For Exsting borewells	6				6.00		
						8.00	100.00	800.00
							Each	
7	Supply and drawing 3 core flat sheathed submersible pump cable manufactured with celectrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts as per 1x3x4 sqmm of 56 strands 0.3mm dia Group A (Page no.12, item no.2.10.3) PWD Elctriclal SR 2014-15 3Cx4.0Sqmm							
	For New borewells	4	280.00			1120.00		
	For Exsting borewells	5	75.00			375.00		
						1495.00	126.70	189417.00
							Mtr	
8	Atalanta, Suguna, CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5KV(20 stage) (Page No.XXXXII, Sl.No.21) KPWD SR-2018-19							
	New Borewell	2				2.00		
	Existing borewell	2				2.00		
						4.00	49955.00	199820.00
							Nos	
9	Supplying and fixing wiring earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (page no.55, Sl.no.7.1) Electrical SR2014-15							
	For new borewell	2				2.00		
	Existing borewell	10				10.00		
						12.00	2727.00	32724.00
							Each	

Sl no	Description of Item	No	L	B	D	Qty	Rate	Amount
10	Supplying and fixing 20"x20"x2.5" polished wood board made up not less than 15mm thick plank with front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts (P.No.44 SL.No.6.6.6) Electrical SR 2014-15							
	For new borewell	2				2.00		
	Existing borewell	12				12.00		
						14.00	302.00	4228.00
							Each	
11	Supplying of 1.1 KV LTUG Cable having alluminium conductor PVC insulated extruded inner sheathed , galvanized, steel strip (except 2C X 10sq.mm wire armoured) confirming to IS-3975:1990(No.of Strip indicated in GTP) & extruded PVC outer sheathed armored cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm (Page no.55, Sl.no.7.4.4) Electrical SR2014-15							
		2	10.00			20.00	140.40	2808.00
							Mtr	
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/on wall/on poles as required. In existing trench/duct. 6 sqmm to 16sqmm (Page no.61, Sl.no.7.8.1) Electrical SR2014-15							
		2	10.00			20.00	10.80	216.00
							Mtr	
13	Supplying and fixing of procelin fuse channel with cutouts on existing wooden/panel using necessary nuts, bolts and washers. 63Amps (Page no.44,Slno.6.7.3) Electrical SR 2014-15							
	For new borewell	2				2.00		
	Existing borewell	10				10.00		
						12.00	234.00	2808.00
							Each	
14	Providing and fixing in position 50mm nominal bore non-return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(Page no.95, Item no.13.62) KPWD SR 2018-19							
	For new borewell	2				2.00		
	Existing borewell	12				12.00		
						14.00	1345.14	18832.00
							Nos	
15	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN (Page no.47 Sl.No.6.16.6) Electrical SR2014-15							
	For new borewell	2				2.00		
	Existing borewell	10				10.00		
						12.00	1936.00	23232.00
							Each	
16	BESCOM Deposit charges and miscellanesous							30000.00

Sl no	Description of Item		No	L	B	D	Qty	Rate	Amount
17	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Cement concrete road including cost of materials, labour, HOM complete as per specifications.(Pg.no.269, item no.37.40)PWD SR-18-19								
			2	418.00	0.60	0.15	75.24		
							75.24	727.16	54712.00
	Basic rate	686.00						Cum	
	A.wtg 6%	41.16							
	Net rate	727.16							
18	KSRB 2-2.2 : Earthwork excavation by manual means in hard soil for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications..(page no.6, item no.2.4) PWD SR 2018-19								
			2	418.00	0.60	0.60	300.96		
	For Taps		60	0.45	0.45	0.75	9.11		
							310.07	475.94	147576.00
	Basic rate	449.00						Cum	
	A.wtg 6%	26.94							
	Net rate	475.94							
19	Supplying PVC ring tight pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite rolling and lowering into trenches laying true line and level and perfect linking at joints testing and commissioning including loading and unloading at both destination and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approval type with all labour with all lead and lift including encasing the pipe alround to a depth of not less than 15 cms with soft gravel or selected earth available from the excavation etc., compelte and giving necessary hydraluic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing) (Page no.53, Item no.1(3) BWSSB SR-2014-15)								
			2	418.00			836.00		
							836.00	73.00	61028.00
								Mtr	
20	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(Page No.7,Item No. 2.11) KPWD SR-2018-19								
			2	418.00	0.60	0.30	150.48		
							150.48	128.26	19301.00
	Basic rate	121.00						Cum	
	A.wtg 6%	7.26							
	Net rate	128.26							

Sl no	Description of Item		No	L	B	D	Qty	Rate	Amount
21	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2.(P-13, I-4.3)								
	For Pipe line surface		2	418.00	0.60	0.15	75.24		
						Total	75.24	5408.12	406907.00
	Basic rate	5102.00						per Cum	
	A.wtg 6%	306.12							
	Net rate	5408.12							
22	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (page no.13 , I,no-4.6)								
			2	418.00	0.60	0.10	50.16		
						Total	50.16	5747.32	288286.00
	Basic rate	5422.00						Per Cmtr	
	A.wtg 6%	325.32							
	Net rate	5747.32							
23	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) (Page No.98, Item No. 13.85.2)20mm nominal OD pipes KPWD SR 2018-19								
	For Taps		60	1.20			72.00		
							72.00	166.42	11982.00
								Rmt	
24	KSRB13-6.1 : Providing and fixing in position brass bib cock of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Page No.93, Item No. 13.23) KPWD SR 2018-19 15mm dia nominal bore								
	For Taps		60				60.00		
							60.00	201.40	12084.00
								Each	
25	KSRB 6-1.3 : Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5Newton per sqm with cement mortar including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2(Page No.29, Item No. 6.3) with cement mortar 1:6 KPWD SR 2018-19								
	For Taps		60	0.30	0.30	1.20	6.48		
							6.48	6584.72	42669.00
	Basic rate	6212.00						Cum	
	A.wtg 6%	372.72							

Sl no	Description of Item		No	L	B	D	Qty	Rate	Amount
	Net rate	6584.72							
26	KSRB15-3 : Providing 12mm thick cement plaster in single coat with cement mortar, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding,cost of materials, labour, curing etc., complete as per specification. (Page No.116, Item No. 15.21) cement mortar 1:3 KPWD SR 2018-19								
	For Taps		60	1.20		1.20	86.40		
							86.40	249.10	21522.00
	Basic rate	235.00						Sqm	
	A.wtg 6%	14.10							
	Net rate	249.10							
27	Lead for disposal of debris shall be payable at carrage rates by mechanical means including loading and unloading From 13.30 Kms								
	For Debries						60.00		
							60.00	91.05	5463.00
								Per cmtr	
						KPWD SR ITEMS SUB TOTAL			1500599.00
								Total Rs:-	2318969.00
						Add GST 12% on KPWD items			180071.88
								Sub Total	2499040.88
					Miscellaneous and unforeseen charges				959.12
								Total Rs:-	2500000.00
	(Rupees Twenty five Lakhs only)								

CERTIFICATES

1 The work will be Executed within BBMP limit only

2 The work spot is inspected by me

3 The items Provided in the Estimate are quite Essential

4 The Estimate is prepared Based on CSR 2018-2019, BWSSB SR 2014-15 and Electrical SR 2014-15 And PRED SR 2012-13

Asst.Engineer
Waard No-08

Asst. Executive Engineer
Kodigehalli Subdivision
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore

Administrative Approval
Accorded For Rs25.00 laeche only
Head of A/C P3293
CER NO :167 Dt:09.01.2019

TA CE (YNK)

Technical Sanction
Accorded For Rs25.00 laeche only
Head of A/C P3293
CER NO :246 Dt:09.01.2019

TA CE (YNK)